

BLUIRIS
蓝眼科技



FAI-600

SMT First Article Inspection System

SHENZHEN BLUIRIS TECHNOLOGIES

FAI-600

First Article Inspection System

Powerful First Article Inspection System offering unparalleled automated manufacturing verification test and reporting capabilities.

The BLUIRIS FAI-600 First Article Inspection System quickly and accurately verify First Article Samples. Using advanced optical and computing techniques, the FAI-600 measures properties of an initial sample against the specifications. Tests conducted include checking whether a correct component has been used, whether a component is in the defined location, and whether a component is positioned accurately. The values of components such as resistors, capacitors and inductors can be automatically checked and verified. The system can eliminate up to 99.99% errors due to manual inspection methods. Test results are provided in insightful, detailed reports.



VS



First Article Inspection Introduction



1、Save Labor Cost

With traditional methods and approaches, the first inspection process typically requires at least two operators to perform the task. With the FAI-600, only one operator is required.



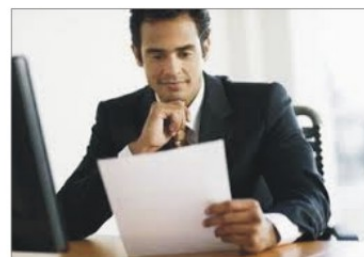
2、Save Time

Reduce the time it takes to perform first article inspections by up to 80%.



3、Improve Quality

Eliminate up to 99.99% of errors caused by manual methods.



4、First Article Inspection Report

Comprehensive reporting including pass/fail information, observed values, and insightful charts and graphs. Reports can be viewed, printed, saved or emailed.



5、Easy to use

Intuitive and easy to use. FAI-600 operators can learn to use the FAI-600 in under two days.



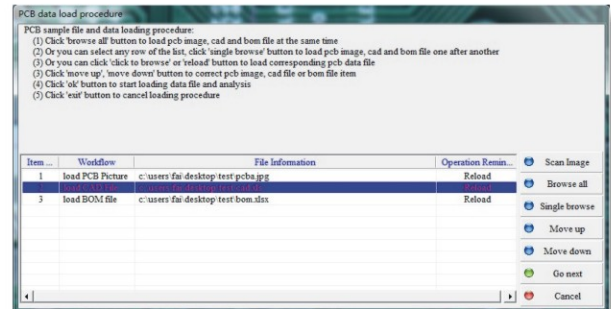
6、Multiple Customer Deployments

FAI-600 systems are deployed at hundreds of customer sites. Representative customers include Benchmark, Celestica, VALEO, VIVO.

First Article Inspection Introduction

Programming

Auto generate a test program in under 5 minutes.



Auto check

For components without markings, a built-in LCR meter can perform test measurements for inductance, capacitance and resistance; the FAI-600 automatically changes the test frequency based on BOM information.

The current reporting list has totally 433 components, including passed 7, fail 3, non-detected 429

Item No.	Location	Coord(x, y)	Description	Part No.	Measured Value	Result	Remarks
T2	C77	(46.590, 41.750)	CAP 1206 10uF ±10% ±20% V37	121809010106	8.83851uF	✓ PASS	
T3	C80	(104.600, 51.200)	CAP 1206 10uF ±10% ±20% V37	121809010106	8.79325uF	✓ PASS	
T4	C46	(56.590, 40.800)	CAP 0805 1uF ±10% ±10% V37R	121803000102	0.97114uF	✓ PASS	
T5	C1	(108.750, 70.500)	CAP 0805 1uF ±10% ±20% V37	121803010105	2.02385uF	✗ NG	wrong material

Auto optical inspection and "Golden Board"

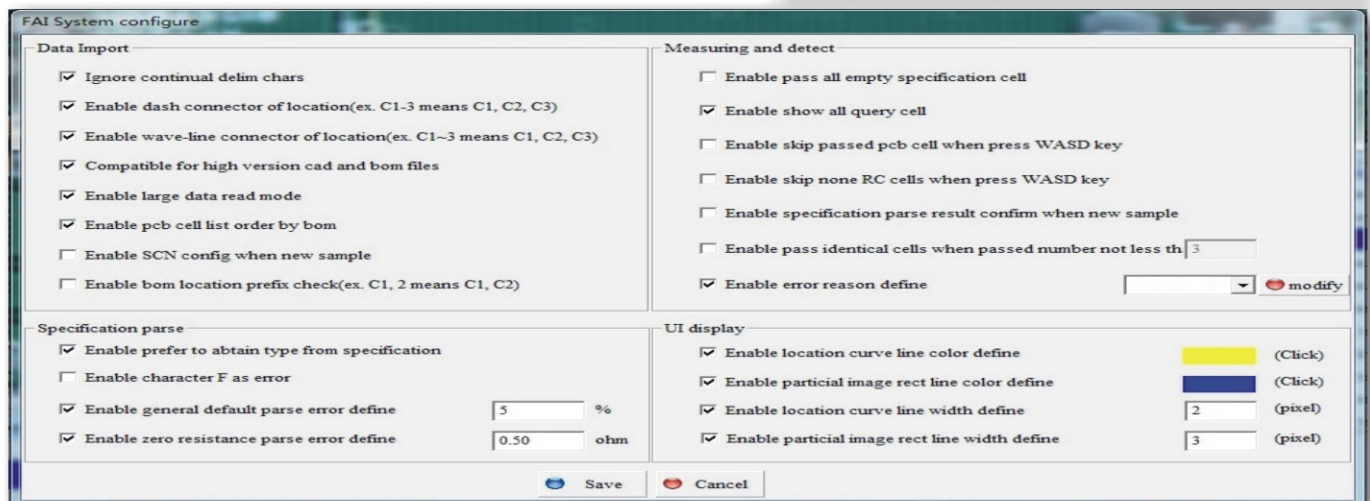
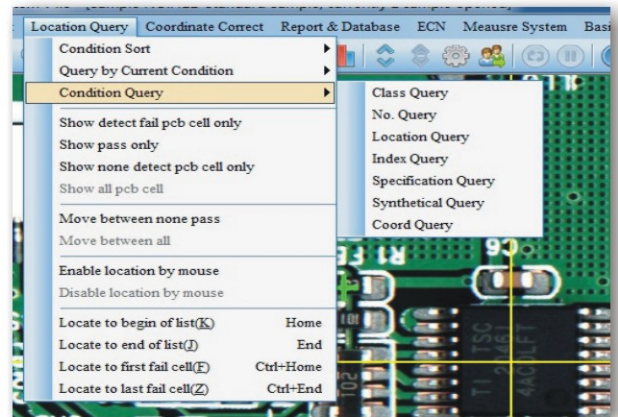
For components with silk screening, the FAI-600 system checks all components in under a minute. A "Golden Board" can serve as a test reference.



First Article Inspection Introduction

Detailed Search

Report data can be viewed and sorted in a number of different ways. For example, components can be sorted according to whether they have passed or failed a test, or by their part numbers.



Report

Each report includes the company's name, test time, operator's name, model number, total number of components, how many components passed and failed. The measured values of all components and their nominal values are also shown. Reports can be viewed, printed, saved or emailed to customers.

First Article Inspection Report

Conclusion : PASS
 Company: HPG
 Sample : TEST001
 Customer :
 Scanning Dur. : 00:01:50
 Measuring Dur. 00:34:28
 Producing Date 2015-03-11
 PASS : 419

Pass Rate : 100%
 Detector : QA002
 Lot No. :
 Batch Qty. :
 Process Dur. : 00:01:05
 Report Date : 00:00:20
 Total Inspec. : 419
 Non-detected : 0

NG : 0

Overall Picture for PCB

No.	Ref Des	Part No.	Item Description	Thumbnail	Stand. P/c	Measured value	Remarks
5	C17	121803020104	CAP.0603,0.1uF,50V,+80%-20%,Y5V			0.105442uF	PASS(Auto)
7	C37	121803020104	CAP.0603,0.1uF,50V,+80%-20%,Y5V			0.105104uF	PASS(Auto)
56	C74	121806020106	CAP.0805,10uF,10V,+80%-20%,Y5V			8.895354uF	PASS(Auto)
82	C10	121806000225	CAP.0805,2.2uF,16V,+80%-20%,Y5V			2.028108uF	PASS(Auto)

FAI-600 First Article Inspection

**Makes SMT
efficient**

**Reduce
labor cost**

**Auto test
and check**

**Improve
quality**

**Optimize work
procedures**

Trace back

Comparison between the FAI-600 and traditional methods

Criteria	FAI-600	Traditional	Note
labor	One operator	At least two operators	FAI-600 can achieve at least 50% labor cost savings
Speed	Fast	Low to medium	FAI-600 reduce test time up to 80%
Accuracy	Very accurate	Uncertain	FAI-600 test results are up to 99.99% accurate and reliable
Vision	Clear	Unclear	FAI-600 scans PCBs with the latest optical technologies
Verification	Automated	Human	
Report	Detail	Unclear	Reports can be viewed, saved and emailed. They are automatically generated
Auditing	Yes	No	An operator needs to sign in to the FAI-600 providing tracking and auditing information



■ Specifications

Standard Board size	420mm x 300mm (Max)
Components height	26mm (Max)
Definition	600dpi-2400dpi
Accuracy	0.05%
LCR meter test frequency	50Hz-100KHz
Monitor size	21.5 "
Support	English/Chinese
Power supply	AC 100-230V 1.2kVA
Dimension	W1300mm x D960 x H780mm
Weight	180Kg

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